Accident / Incident Report Closed



Unit/Department	Process Area	Įs	Site			Report Numb		er	
South Operation-Elyria		E	ELYRIA		0084-SOPS-13-0167				
Report Date	Incident Date	I.	Incident Time			Copied From			
10/23/2013	10/23/2013	0	01:00 PM				·		
Incident Location	7	Team Leader / Supervisor		Repo	orted By		W		
588 Gen Cat	F	Raymond A Navarro		Raymond A Navarro			***************************************		
Title of Event (Limit to 90 cha	Č	Category		Division / Bus. Group / Subgroup Code		1.1. *acade			
Nox Release on #3 RC.		Safety & Health Environmental			CC / G-CCP			* N. I Marker <u>- 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1884 - 1</u>	
Incident Classification									
Near Miss Process Safety Injury / Iflness Spill / Release Permit / Regulatory Deviati Fire Odor Complaint Describe Event / What Happer At 1:00 pm the evacuation al from the #3RC when the feed placed on online and it was Immediate Corrective Action of Evacuation of the department Immediate Cause Likely CTO was not placed of Spill Release Tree(s)	Citatio Health Inspection Major Non-C RMP ned larm was pulled a d was started. It we the likely cause of r Response on line at the start	Incident occupational and the entire deployas during the ER of the Nox. of the #3 RC feed	eartment wat respons	Cont Cont PSM Plant EHS Othe	ract Inju t Upset Manage r	ijury / Illne ry / Illness ement Sys The repor und that	stem Failu	t the Nox	came een
Spill Release Type(s) Chemical(s) Involved	Non RQ Spill / R	elease CAS#	Phy.	State	Air	Land	Water	Controt	Units
Nitrogen Dioxide (NOx)		10102-44-0	Gas		2.4	0	0	0	lbs
PART OF THE PART O	Release to Air						·	<u> </u>	i
Weather Conditions	Skies:	Temperature: Wind D		d Direction	Direction: Wind Spe		eed:		
Cause Narrative The likely reason for the Nox release is that the CTO scrubber was not verified to be online before the feed was started in the CRT room. Calciner had been off for four days prior to starting up. Additionally, there are no interlocks between the calciner and the scrubber associated with it. It is possible to start the calciner without verifying that the scrubber is not online. Contributing Causes Root/Primary Causes									
There are no interlocks between the #3RC (possibly other RC's) and the scrubber associated with them. No alarm is displayed on the CRT screens if the feed is started before the scrubber is placed online.		15 - Design Input/Output 138 - Hurnan Factors Engineeri	17 - [LTA 160 -	17 - Design Output 17 LTA		17 - Design Output LTA			
CRT's are not trained on what Control Screen prior to starting	163 - Training	164 -	164 - No Training 166 - Training Required		irements Not				
There is no calciner exhaust sy	138 - Human	140 -	140 - Workplace 141 - Controls/Displays LTA						

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alarm.	Fac	tors Engineering	Layout					
Explanation of Root Causes								
15-17-17 - There does not seem to be any interlocks between the calciner and the CTO (possibly affecting more calciners) that would require that the CTO is placed online before feeding can start/resume. 138-160-161 - There does not seem to be an alarm (visual) that is displayed if the feed is started on the calciner but the CTO is not online. 163/164/166 - Information is on the screen on scrubber pressure but most CRT's are not aware of this and have not been trained. 138/140/141 - If alarm was in place this would have alarmed the CRT that there was no suction.								
Any known or potential off-site impacts?	No	PSM Incid	ent? No	Estimated Cost:	5,000.00 USD			
Investigation Team	Raymond A Navarro; William Grodecki; Kirk Sullenberger; Gregory A Menz; Jennifer Bailey							

lte m	Corrective Action(s) to prevent recurrence	Responsible Person	Target Date	Final Closed Date	VC Re q	VE Re q
1	C: Review AIM in safety meeting. Alert CRT's to information currently available on Control Screen in regards to scrubbers.	Raymond A Navarro/NA/BASF	11/30/2013	11/30/2013	N	N
2	B: Add operator prompt to verify scrubber is online prior to starting feeder.	Kirk Sullenberger/BASF-CATALYSTS/BA SF	03/31/2014	05/09/2014	N	N
3	C: Add calciner pressure exhaust system alarm to all calciners.	Kirk Sullenberger/BASF-CATALYSTS/BA SF	04/25/2014	06/25/2014	N	N

Approved By:		
Manager / Dept. Head	Jason M Therrien 11/27/2013 07:57 AM	
	LCCII Lavodiiik 11/10/2010 01:00 Aiii	
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